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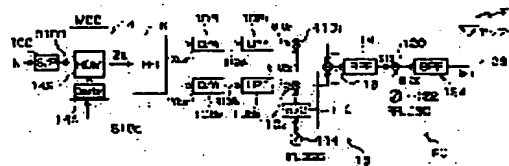
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(54) DATA TRANSMITTER AND DATA TRANSMISSION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To improve more the quality of an OFDM modulation signal.

SOLUTION: A signal point transmitter 14 allocates a signal point $Z_{k,l}$ in a QPSK modulation circuit 18 to parallel data S100 inputted from an S/P conversion circuit 100 by changing an amplitude so as to compensate an aperture effect of a communication transmission line and each section after an IFFT circuit 104 onto a modulation signal S20. D/A converter circuits 1061, 1062 and LPF circuits 1081, 1082 convert complex number data $z_{k,m}$ into analog form and eliminate an undesired harmonic component to generate transmission signals S1061, S1062. The QPSK modulation circuit 18 adopts the QPSK modulation system to generate a modulation signal S18 at an intermediate frequency band. A transmission circuit 20 converts the modulation signal S18 into a modulation signal S20 at a carrier frequency band of a communication transmission line to send it.



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